

PC10343B Sequence Listing
SEQUENCE LISTING

<110> Pfizer Inc.
Pfizer Limited
Maw, Graham Nigel
Wayman, Christopher Peter

<120> Compounds for the Treatment of Female Sexual Dysfunction

<130> PC10343B

<150> US 09/708,392
<151> 2000-11-08

<150> US 60/175,161
<151> 2000-03-29

<150> GB 9926437.6
<151> 1999-11-08

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<151> 2000-02-18

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<151> 2000-05-26

<150> GB 0016563.9
<151> 2000-07-05

<150> GB 0017141.3
<151> 2000-07-12

<150> US 60/192,962
<151> 2000-03-29

<150> US 60/217,479
<151> 2000-07-11

<150> US 60/221,014
<151> 2000-07-27

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<151> 2000-07-27

<160> 20

<170> PatentIn version 3.2

<210> 1
<211> 743
<212> PRT
<213> Homo Sapiens

<400> 1

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Trp Thr Pro Leu Glu Ile Ser Leu Ser Val Leu Val Leu Leu Leu Thr
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Ile Ile Ala Val Thr Met Ile Ala Leu Tyr Ala Thr Tyr Asp Asp Gly
35 40 45

Ile Cys Lys Ser Ser Asp Cys Ile Lys Ser Ala Ala Arg Leu Ile Gln
50 55 60

Asn Met Asp Ala Thr Thr Glu Pro Cys Thr Asp Phe Phe Lys Tyr Ala
65 70 75 80

Cys Gly Gly Trp Leu Lys Arg Asn Val Ile Pro Glu Thr Ser Ser Arg
85 90 95

Tyr Gly Asn Phe Asp Ile Leu Arg Asp Glu Leu Glu Val Val Leu Lys
100 105 110

Asp Val Leu Gln Glu Pro Lys Thr Glu Asp Ile Val Ala Val Gln Lys
115 120 125

Ala Lys Ala Leu Tyr Arg Ser Cys Ile Asn Glu Ser Ala Ile Asp Ser
130 135 140

Arg Gly Gly Glu Pro Leu Leu Lys Leu Leu Pro Asp Ile Tyr Gly Trp
145 150 155 160

Pro Val Ala Thr Glu Asn Trp Glu Gln Lys Tyr Gly Ala Ser Trp Thr
165 170 175

Ala Glu Lys Ala Ile Ala Gln Leu Asn Ser Lys Tyr Gly Lys Lys Val
180 185 190

Leu Ile Asn Leu Phe Val Gly Thr Asp Asp Lys Asn Ser Val Asn His
195 200 205

Val Ile His Ile Asp Gln Pro Arg Leu Gly Leu Pro Ser Arg Asp Tyr
210 215 220

Tyr Glu Cys Thr Gly Ile Tyr Lys Glu Ala Cys Thr Ala Tyr Val Asp
225 230 235 240

Phe Met Ile Ser Val Ala Arg Leu Ile Arg Gln Glu Glu Arg Leu Pro
245 250 255

Ile Asp Glu Asn Gln Leu Ala Leu Glu Met Asn Lys Val Met Glu Leu
260 265 270

Glu Lys Glu Ile Ala Asn Ala Thr Ala Lys Pro Glu Asp Arg Asn Asp
275 280 285

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Pro Met Leu Leu Tyr Asn Lys Met Thr Leu Ala Gln Ile Gln Asn Asn
290 295 300

Phe Ser Leu Glu Ile Asn Gly Lys Pro Phe Ser Trp Leu Asn Phe Thr
305 310 315 320

Asn Glu Ile Met Ser Thr Val Asn Ile Ser Ile Thr Asn Glu Glu Asp
325 330 335

Val Val Val Tyr Ala Pro Glu Tyr Leu Thr Lys Leu Lys Pro Ile Leu
340 345 350

Thr Lys Tyr Ser Ala Arg Asp Leu Gln Asn Leu Met Ser Trp Arg Phe
355 360 365

Ile Met Asp Leu Val Ser Ser Leu Ser Arg Thr Tyr Lys Glu Ser Arg
370 375 380

Asn Ala Phe Arg Lys Ala Leu Tyr Gly Thr Thr Ser Glu Thr Ala Thr
385 390 395 400

Trp Arg Arg Cys Ala Asn Tyr Val Asn Gly Asn Met Glu Asn Ala Val
405 410 415

Gly Arg Leu Tyr Val Glu Ala Ala Phe Ala Gly Glu Ser Lys His Val
420 425 430

Val Glu Asp Leu Ile Ala Gln Ile Arg Glu Val Phe Ile Gln Thr Leu
435 440 445

Asp Asp Leu Thr Trp Met Asp Ala Glu Thr Lys Lys Arg Ala Glu Glu
450 455 460

Lys Ala Leu Ala Ile Lys Glu Arg Ile Gly Tyr Pro Asp Asp Ile Val
465 470 475 480

Ser Asn Asp Asn Lys Leu Asn Asn Glu Tyr Leu Glu Leu Asn Tyr Lys
485 490 495

Glu Asp Glu Tyr Phe Glu Asn Ile Ile Gln Asn Leu Lys Phe Ser Gln
500 505 510

Ser Lys Gln Leu Lys Lys Leu Arg Glu Lys Val Asp Lys Asp Glu Trp
515 520 525

Ile Ser Gly Ala Ala Val Val Asn Ala Phe Tyr Ser Ser Gly Arg Asn
530 535 540

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Gln Ile Val Phe Pro Ala Gly Ile Leu Gln Pro Pro Phe Phe Ser Ala
545 550 555 560

Gln Gln Ser Asn Ser Leu Asn Tyr Gly Gly Ile Gly Met Val Ile Gly
565 570 575

His Glu Ile Thr His Gly Phe Asp Asp Asn Gly Arg Asn Phe Asn Lys
580 585 590

Asp Gly Asp Leu Val Asp Trp Trp Thr Gln Gln Ser Ala Ser Asn Phe
595 600 605

Lys Glu Gln Ser Gln Cys Met Val Tyr Gln Tyr Gly Asn Phe Ser Trp
610 615 620

Asp Leu Ala Gly Gly Gln His Leu Asn Gly Ile Asn Thr Leu Gly Glu
625 630 635 640

Asn Ile Ala Asp Asn Gly Gly Leu Gly Gln Ala Tyr Arg Ala Tyr Gln
645 650 655

Asn Tyr Ile Lys Lys Asn Gly Glu Glu Lys Leu Leu Pro Gly Leu Asp
660 665 670

Leu Asn His Lys Gln Leu Phe Phe Leu Asn Phe Ala Gln Val Trp Cys
675 680 685

Gly Thr Tyr Arg Pro Glu Tyr Ala Val Asn Ser Ile Lys Thr Asp Val
690 695 700

His Ser Pro Gly Asn Phe Arg Ile Ile Gly Thr Leu Gln Asn Ser Ala
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Glu Phe Ser Glu Ala Phe His Cys Arg Lys Asn Ser Tyr Met Asn Pro
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Glu Lys Lys Cys Arg Val Trp
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<212> DNA
<213> Homo Sapiens

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aagatgtggg tgtttatgct ccagaatatt taaccaaact taagcccatt cttaccaa	1080
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<210> 3
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 <213> Homo Sapiens

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			20					25					30		

Gly	Ile	Leu	Arg	Cys	Leu	Val	Lys	Gln	Leu	Glu	Arg	Gly	Asp	Val	Asn
		35					40					45			

Val	Val	Asp	Leu	Lys	Lys	Asn	Ile	Glu	Tyr	Ala	Ala	Ser	Val	Leu	Glu
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50

55

60

Ala Val Tyr Ile Asp Glu Thr Arg Arg Leu Leu Asp Thr Glu Asp Glu
65 70 75 80

Leu Ser Asp Ile Gln Thr Asp Ser Val Pro Ser Glu Val Arg Asp Trp
85 90 95

Leu Ala Ser Thr Phe Thr Arg Lys Met Gly Met Thr Lys Lys Lys Pro
100 105 110

Glu Glu Lys Pro Lys Phe Arg Ser Ile Val His Ala Val Gln Ala Gly
115 120 125

Ile Phe Val Glu Arg Met Tyr Arg Lys Thr Tyr His Met Val Gly Leu
130 135 140

Ala Tyr Pro Ala Ala Val Ile Val Thr Leu Lys Asp Val Asp Lys Trp
145 150 155 160

Ser Phe Asp Val Phe Ala Leu Asn Glu Ala Ser Gly Glu His Ser Leu
165 170 175

Lys Phe Met Ile Tyr Glu Leu Phe Thr Arg Tyr Asp Leu Ile Asn Arg
180 185 190

Phe Lys Ile Pro Val Ser Cys Leu Ile Thr Phe Ala Glu Ala Leu Glu
195 200 205

Val Gly Tyr Ser Lys Tyr Lys Asn Pro Tyr His Asn Leu Ile His Ala
210 215 220

Ala Asp Val Thr Gln Thr Val His Tyr Ile Met Leu His Thr Gly Ile
225 230 235 240

Met His Trp Leu Thr Glu Leu Glu Ile Leu Ala Met Val Phe Ala Ala
245 250 255

Ala Ile His Asp Tyr Glu His Thr Gly Thr Thr Asn Asn Phe His Ile
260 265 270

Gln Thr Arg Ser Asp Val Ala Ile Leu Tyr Asn Asp Arg Ser Val Leu
275 280 285

Glu Asn His His Val Ser Ala Ala Tyr Arg Leu Met Gln Glu Glu Glu
290 295 300

PC10343B Sequence Listing

Met Asn Ile Leu Ile Asn Leu Ser Lys Asp Asp Trp Arg Asp Leu Arg
305 310 315 320

Asn Leu Val Ile Glu Met Val Leu Ser Thr Asp Met Ser Gly His Phe
325 330 335

Gln Gln Ile Lys Asn Ile Arg Asn Ser Leu Gln Gln Pro Glu Gly Ile
340 345 350

Asp Arg Ala Lys Thr Met Ser Leu Ile Leu His Ala Ala Asp Ile Ser
355 360 365

His Pro Ala Lys Ser Trp Lys Leu His Tyr Arg Trp Thr Met Ala Leu
370 375 380

Met Glu Glu Phe Phe Leu Gln Gly Asp Lys Glu Ala Glu Leu Gly Leu
385 390 395 400

Pro Phe Ser Pro Leu Cys Asp Arg Lys Ser Thr Met Val Ala Gln Ser
405 410 415

Gln Ile Gly Phe Ile Asp Phe Ile Val Glu Pro Thr Phe Ser Leu Leu
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Thr Asp Ser Thr Glu Lys Ile Val Ile Pro Leu Ile Glu Glu Ala Ser
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Lys Ala Glu Thr Ser Ser Tyr Val Ala Ser Ser Ser Thr Thr Ile Val
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Gly Leu His Ile Ala Asp Ala Leu Arg Arg Ser Asn Thr Lys Gly Ser
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Met Ser Asp Gly Ser Tyr Ser Pro Asp Tyr Ser Leu Ala Ala Val Asp
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Leu Lys Ser Phe Lys Asn Asn Leu Val Asp Ile Ile Gln Gln Asn Lys
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Lys Cys Glu Phe Ile His Gln
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<212> DNA

PC10343B Sequence Listing

<213> Homo Sapiens

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gagagggtga	aagagtttag	tgacaagaa	gcaagaacca	gttcacagaa	gtgtgagttt	1680
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aaagacttgg	agattttgat	tatgcttgct	ggaaatctac	cctgtcctgt	gtgagacagg	1800

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<212> PRT
<213> Homo Sapiens

<400> 5

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Pro Asp Glu Pro Pro Pro Pro Pro Gln Pro Cys Ala Asp Ser Leu Gln
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Asp Ala Leu Leu Ser Leu Gly Ser Val Ile Asp Ile Ser Gly Leu Gln
50 55 60

Arg Ala Val Lys Glu Ala Leu Ser Ala Val Leu Pro Arg Val Glu Thr
65 70 75 80

Val Tyr Thr Tyr Leu Leu Asp Gly Glu Ser Gln Leu Val Cys Glu Asp
85 90 95

Pro Pro His Glu Leu Pro Gln Glu Gly Lys Val Arg Glu Ala Ile Ile
100 105 110

Ser Gln Lys Arg Leu Gly Cys Asn Gly Leu Gly Phe Ser Asp Leu Pro
115 120 125

Gly Lys Pro Leu Ala Arg Leu Val Ala Pro Leu Ala Pro Asp Thr Gln
130 135 140

Val Leu Val Met Pro Leu Ala Asp Lys Glu Ala Gly Ala Val Ala Ala
145 150 155 160

Val Ile Leu Val His Cys Gly Gln Leu Ser Asp Asn Glu Glu Trp Ser
165 170 175

Leu Gln Ala Val Glu Lys His Thr Leu Val Ala Leu Arg Arg Val Gln
180 185 190

PC10343B Sequence Listing

Val Leu Gln Gln Arg Gly Pro Arg Glu Ala Pro Arg Ala Val Gln Asn
195 200 205

Pro Pro Glu Gly Thr Ala Glu Asp Gln Lys Gly Gly Ala Ala Tyr Thr
210 215 220

Asp Arg Asp Arg Lys Ile Leu Gln Leu Cys Gly Glu Leu Tyr Asp Leu
225 230 235 240

Asp Ala Ser Ser Leu Gln Leu Lys Val Leu Gln Tyr Leu Gln Gln Glu
245 250 255

Thr Arg Ala Ser Arg Cys Cys Leu Leu Leu Val Ser Glu Asp Asn Leu
260 265 270

Gln Leu Ser Cys Lys Val Ile Gly Asp Lys Val Leu Gly Glu Glu Val
275 280 285

Ser Phe Pro Leu Thr Gly Cys Leu Gly Gln Val Val Glu Asp Lys Lys
290 295 300

Ser Ile Gln Leu Lys Asp Leu Thr Ser Glu Asp Val Gln Gln Leu Gln
305 310 315 320

Ser Met Leu Gly Cys Glu Leu Gln Ala Met Leu Cys Val Pro Val Ile
325 330 335

Ser Arg Ala Thr Asp Gln Val Val Ala Leu Ala Cys Ala Phe Asn Lys
340 345 350

Leu Glu Gly Asp Leu Phe Thr Asp Glu Asp Glu His Val Ile Gln His
355 360 365

Cys Phe His Tyr Thr Ser Thr Val Leu Thr Ser Thr Leu Ala Phe Gln
370 375 380

Lys Glu Gln Lys Leu Lys Cys Glu Cys Gln Ala Leu Leu Gln Val Ala
385 390 395 400

Lys Asn Leu Phe Thr His Leu Asp Asp Val Ser Val Leu Leu Gln Glu
405 410 415

Ile Ile Thr Glu Ala Arg Asn Leu Ser Asn Ala Glu Ile Cys Ser Val
420 425 430

Phe Leu Leu Asp Gln Asn Glu Leu Val Ala Lys Val Phe Asp Gly Gly
435 440 445

PC10343B Sequence Listing

Val Val Asp Asp Glu Ser Tyr Glu Ile Arg Ile Pro Ala Asp Gln Gly
450 455 460

Ile Ala Gly His Val Ala Thr Thr Gly Gln Ile Leu Asn Ile Pro Asp
465 470 475 480

Ala Tyr Ala His Pro Leu Phe Tyr Arg Gly Val Asp Asp Ser Thr Gly
485 490 495

Phe Arg Thr Arg Asn Ile Leu Cys Phe Pro Ile Lys Asn Glu Asn Gln
500 505 510

Glu Val Ile Gly Val Ala Glu Leu Val Asn Lys Ile Asn Gly Pro Trp
515 520 525

Phe Ser Lys Phe Asp Glu Asp Leu Ala Thr Ala Phe Ser Ile Tyr Cys
530 535 540

Gly Ile Ser Ile Ala His Ser Leu Leu Tyr Lys Lys Val Asn Glu Ala
545 550 555 560

Gln Tyr Arg Ser His Leu Ala Asn Glu Met Met Met Tyr His Met Lys
565 570 575

Val Ser Asp Asp Glu Tyr Thr Lys Leu Leu His Asp Gly Ile Gln Pro
580 585 590

Val Ala Ala Ile Asp Ser Asn Phe Ala Ser Phe Thr Tyr Thr Pro Arg
595 600 605

Ser Leu Pro Glu Asp Asp Thr Ser Met Ala Ile Leu Ser Met Leu Gln
610 615 620

Asp Met Asn Phe Ile Asn Asn Tyr Lys Ile Asp Cys Pro Thr Leu Ala
625 630 635 640

Arg Phe Cys Leu Met Val Lys Lys Gly Tyr Arg Asp Pro Pro Tyr His
645 650 655

Asn Trp Met His Ala Phe Ser Val Ser His Phe Cys Tyr Leu Leu Tyr
660 665 670

Lys Asn Leu Glu Leu Thr Asn Tyr Leu Glu Asp Ile Glu Ile Phe Ala
675 680 685

Leu Phe Ile Ser Cys Met Cys His Asp Leu Asp His Arg Gly Thr Asn
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690

695

700

Asn Ser Phe Gln Val Ala Ser Lys Ser Val Leu Ala Ala Leu Tyr Ser
705 710 715 720

Ser Glu Gly Ser Val Met Glu Arg His His Phe Ala Gln Ala Ile Ala
725 730 735

Ile Leu Asn Thr His Gly Cys Asn Ile Phe Asp His Phe Ser Arg Lys
740 745 750

Asp Tyr Gln Arg Met Leu Asp Leu Met Arg Asp Ile Ile Leu Ala Thr
755 760 765

Asp Leu Ala His His Leu Arg Ile Phe Lys Asp Leu Gln Lys Met Ala
770 775 780

Glu Val Gly Tyr Asp Arg Asn Asn Lys Gln His His Arg Leu Leu Leu
785 790 800

Cys Leu Leu Met Thr Ser Cys Asp Leu Ser Asp Gln Thr Lys Gly Trp
805 810 815

Lys Thr Thr Arg Lys Ile Ala Glu Leu Ile Tyr Lys Glu Phe Phe Ser
820 825 830

Gln Gly Asp Leu Glu Lys Ala Met Gly Asn Arg Pro Met Glu Met Met
835 840 845

Asp Arg Glu Lys Ala Tyr Ile Pro Glu Leu Gln Ile Ser Phe Met Glu
850 855 860

His Ile Ala Met Pro Ile Tyr Lys Leu Leu Gln Asp Leu Phe Pro Lys
865 870 875 880

Ala Ala Glu Leu Tyr Glu Arg Val Ala Ser Asn Arg Glu His Trp Thr
885 890 895

Lys Val Ser His Lys Phe Thr Ile Arg Gly Leu Pro Ser Asn Asn Ser
900 905 910

Leu Asp Phe Leu Asp Glu Glu Tyr Glu Val Pro Asp Leu Asp Gly Thr
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Arg Ala Pro Ile Asn Gly Cys Cys Ser Leu Asp Ala Glu
930 935 940

PC10343B Sequence Listing

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 <212> DNA
 <213> Homo Sapiens

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PC10343B Sequence Listing

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PC10343B Sequence Listing

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<212> PRT
<213> Homo Sapiens
<400> 7

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Ser Leu Leu Val Cys Leu Gly Ala Leu Ala Glu Ala Tyr Pro Ser Lys
20 25 30

Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
35 40 45

Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
50 55 60

Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg
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Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met
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Trp

<210> 8
<211> 551
<212> DNA
<213> Homo Sapiens

PC10343B Sequence Listing

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agccggacaa cccgggagag gacgcaccag cggaggacat ggccagatac tactcggcgc      240
tgcgacacta catcaacctc atcaccaggc agagatatgg aaaacgatcc agcccagaga      300
cactgatttc agacctcttg atgagagaaa gcacagaaaa tgttcccaga actcggcttg      360
aagaccctgc aatgtggtga tgggaaatga gacttgctct ctggcctttt cctattttca      420
gcccataatt catcgtgtaa aacgagaatc caccatcctt accaatgcat gcagccactg      480
tgctgaattc tgcaatgttt tcctttgtca tcattgtata tatgtgtgtt taaataaagt      540
atcatgcatt c                                                                551

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<210> 9
<211> 384
<212> PRT
<213> Homo Sapiens

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<400> 9
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Asn Phe Ser Glu Lys Asn Ala Gln Leu Leu Ala Phe Glu Asn Asp Asp
20          25          30
Cys His Leu Pro Leu Ala Met Ile Phe Thr Leu Ala Leu Ala Tyr Gly
35          40          45
Ala Val Ile Ile Leu Gly Val Ser Gly Asn Leu Ala Leu Ile Ile Ile
50          55          60
Ile Leu Lys Gln Lys Glu Met Arg Asn Val Thr Asn Ile Leu Ile Val
65          70          75          80
Asn Leu Ser Phe Ser Asp Leu Leu Val Ala Ile Met Cys Leu Pro Phe
85          90          95
Thr Phe Val Tyr Thr Leu Met Asp His Trp Val Phe Gly Glu Ala Met
100         105         110
Cys Lys Leu Asn Pro Phe Val Gln Cys Val Ser Ile Thr Val Ser Ile
115         120         125
Phe Ser Leu Val Leu Ile Ala Val Glu Arg His Gln Leu Ile Ile Asn
130         135         140

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PC10343B Sequence Listing

Pro Arg Gly Trp Arg Pro Asn Asn Arg His Ala Tyr Val Gly Ile Ala
 145 150 155 160
 Val Ile Trp Val Leu Ala Val Ala Ser Ser Leu Pro Phe Leu Ile Tyr
 165 170 175
 Gln Val Met Thr Asp Glu Pro Phe Gln Asn Val Thr Leu Asp Ala Tyr
 180 185 190
 Lys Asp Lys Tyr Val Cys Phe Asp Gln Phe Pro Ser Asp Ser His Arg
 195 200 205
 Leu Ser Tyr Thr Thr Leu Leu Leu Val Leu Gln Tyr Phe Gly Pro Leu
 210 215 220
 Cys Phe Ile Phe Ile Cys Tyr Phe Lys Ile Tyr Ile Arg Leu Lys Arg
 225 230 235 240
 Arg Asn Asn Met Met Asp Lys Met Arg Asp Asn Lys Tyr Arg Ser Ser
 245 250 255
 Glu Thr Lys Arg Ile Asn Ile Met Leu Leu Ser Ile Val Val Ala Phe
 260 265 270
 Ala Val Cys Trp Leu Pro Leu Thr Ile Phe Asn Thr Val Phe Asp Trp
 275 280 285
 Asn His Gln Ile Ile Ala Thr Cys Asn His Asn Leu Leu Phe Leu Leu
 290 295 300
 Cys His Leu Thr Ala Met Ile Ser Thr Cys Val Asn Pro Ile Phe Tyr
 305 310 315 320
 Gly Phe Leu Asn Lys Asn Phe Gln Arg Asp Leu Gln Phe Phe Phe Asn
 325 330 335
 Phe Cys Asp Phe Arg Ser Arg Asp Asp Asp Tyr Glu Thr Ile Ala Met
 340 345 350
 Ser Thr Met His Thr Asp Val Ser Lys Thr Ser Leu Lys Gln Ala Ser
 355 360 365
 Pro Val Ala Phe Lys Lys Ile Asn Asn Asn Asp Asp Asn Glu Lys Ile
 370 375 380

PC10343B Sequence Listing

<211> 2624
<212> DNA
<213> Homo Sapiens

<220>
<221> misc_feature
<222> (1622)..(1624)
<223> n is a, c, g, or t

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aaaataatct ataacaacca aaccaatcaa aatgaattca acattatttt cccagggtga      180
aatcattca gtccactcta atttctcaga gaagaatgcc cagcttctgg cttttgaaaa      240
tgatgattgt catctgccct tggccatgat atttacctta gctcttgctt atggagctgt      300
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ttttttactg cttttgttgt agtgtcataa ttacatttgg aacaaaaggt gtgggctttg     1500
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PC10543B Sequence Listing						
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<210>	11
<211>	381
<212>	PRT
<213>	Homo Sapiens
<400>	11

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20 25 30

Val Pro Asp Pro Glu Pro Glu Leu Ile Asp Ser Thr Lys Leu Ile Glu
35 40 45

Val Gln Val Val Leu Ile Leu Ala Tyr Cys Ser Ile Ile Leu Leu Gly
50 55 60

Val Ile Gly Asn Ser Leu Val Ile His Val Val Ile Lys Phe Lys Ser
65 70 75 80

PC10343B Sequence Listing

Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu Ala Val Ala Asp
85 90 95

Leu Leu Val Asn Thr Leu Cys Leu Pro Phe Thr Leu Thr Tyr Thr Leu
100 105 110

Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His Leu Val Pro Tyr
115 120 125

Ala Gln Gly Leu Ala Val Gln Val Ser Thr Ile Thr Leu Thr Val Ile
130 135 140

Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu Glu Ser Lys Ile
145 150 155 160

Ser Lys Arg Ile Ser Phe Leu Ile Ile Gly Leu Ala Trp Gly Ile Ser
165 170 175

Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu Tyr Ser Leu Ile
180 185 190

Glu Ile Ile Pro Asp Phe Glu Ile Val Ala Cys Thr Glu Lys Trp Pro
195 200 205

Gly Glu Glu Lys Ser Ile Tyr Gly Thr Val Tyr Ser Leu Ser Ser Leu
210 215 220

Leu Ile Leu Tyr Val Leu Pro Leu Gly Ile Ile Ser Phe Ser Tyr Thr
225 230 235 240

Arg Ile Trp Ser Lys Leu Lys Asn His Val Ser Pro Gly Ala Ala Asn
245 250 255

Asp His Tyr His Gln Arg Arg Gln Lys Thr Thr Lys Met Leu Val Cys
260 265 270

Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu His Ala Phe Gln
275 280 285

Leu Ala Val Asp Ile Asp Ser Gln Val Leu Asp Leu Lys Glu Tyr Lys
290 295 300

Leu Ile Phe Thr Val Phe His Ile Ile Ala Met Cys Ser Thr Phe Ala
305 310 315 320

Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr Arg Lys Ala Phe
325 330 335

PC10343B Sequence Listing

Leu Ser Ala Phe Arg Cys Glu Gln Arg Leu Asp Ala Ile His Ser Glu
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Val Ser Val Thr Phe Lys Ala Lys Lys Asn Leu Glu Val Arg Lys Asn
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Ser Gly Pro Asn Asp Ser Phe Thr Glu Ala Thr Asn Val
370 375 380

<210> 12
<211> 1200
<212> DNA
<213> Homo Sapiens

<400> 12
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<210> 13
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PC10343B Sequence Listing

<212> PRT

<213> Homo Sapiens

<400> 13

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20 25 30

Tyr Lys Ser Ser Val Asp Asp Leu Gln Tyr Phe Leu Ile Gly Leu Tyr
35 40 45

Thr Phe Val Ser Leu Leu Gly Phe Met Gly Asn Leu Leu Ile Leu Met
50 55 60

Ala Leu Met Lys Lys Arg Asn Gln Lys Thr Thr Val Asn Phe Leu Ile
65 70 75 80

Gly Asn Leu Ala Phe Ser Asp Ile Leu Val Val Leu Phe Cys Ser Pro
85 90 95

Phe Thr Leu Thr Ser Val Leu Leu Asp Gln Trp Met Phe Gly Lys Val
100 105 110

Met Cys His Ile Met Pro Phe Leu Gln Cys Val Ser Val Leu Val Ser
115 120 125

Thr Leu Ile Leu Ile Ser Ile Ala Ile Val Arg Tyr His Met Ile Lys
130 135 140

His Pro Ile Ser Asn Asn Leu Thr Ala Asn His Gly Tyr Phe Leu Ile
145 150 155 160

Ala Thr Val Trp Thr Leu Gly Phe Ala Ile Cys Ser Pro Leu Pro Val
165 170 175

Phe His Ser Leu Val Glu Leu Gln Glu Thr Phe Gly Ser Ala Leu Leu
180 185 190

Ser Ser Arg Tyr Leu Cys Val Glu Ser Trp Pro Ser Asp Ser Tyr Arg
195 200 205

Ile Ala Phe Thr Ile Ser Leu Leu Leu Val Gln Tyr Ile Leu Pro Leu
210 215 220

Val Cys Leu Thr Val Ser His Thr Ser Val Cys Arg Ser Ile Ser Cys
225 230 235 240

PC10343B Sequence Listing

Gly Leu Ser Asn Lys Glu Asn Arg Leu Glu Glu Asn Glu Met Ile Asn
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Leu Thr Leu His Pro Ser Lys Lys Ser Gly Pro Gln Val Lys Leu Ser
260 265 270

Gly Ser His Lys Trp Ser Tyr Ser Phe Ile Lys Lys His Arg Arg Arg
275 280 285

Tyr Ser Lys Lys Thr Ala Cys Val Leu Pro Ala Pro Glu Arg Pro Ser
290 295 300

Gln Glu Asn His Ser Arg Ile Leu Pro Glu Asn Phe Gly Ser Val Arg
305 310 315 320

Ser Gln Leu Ser Ser Ser Ser Lys Phe Ile Pro Gly Val Pro Thr Cys
325 330 335

Phe Glu Ile Lys Pro Glu Glu Asn Ser Asp Val His Glu Leu Arg Val
340 345 350

Lys Arg Ser Val Thr Arg Ile Lys Lys Arg Ser Arg Ser Val Phe Tyr
355 360 365

Arg Leu Thr Ile Leu Ile Leu Val Phe Ala Val Ser Trp Met Pro Leu
370 375 380

His Leu Phe His Val Val Thr Asp Phe Asn Asp Asn Leu Ile Ser Asn
385 390 395 400

Arg His Phe Lys Leu Val Tyr Cys Ile Cys His Leu Leu Gly Met Met
405 410 415

Ser Cys Cys Leu Asn Pro Ile Leu Tyr Gly Phe Leu Asn Asn Gly Ile
420 425 430

Lys Ala Asp Leu Val Ser Leu Ile His Cys Leu His Met
435 440 445

<210> 14
<211> 1370
<212> DNA
<213> Homo Sapiens

<400> 14
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<210>	15
<211>	170
<212>	PRT
<213>	Homo Sapiens
<400>	15

Ser Ala Leu Arg Leu Gly Asp Arg Ile Pro Phe Glu Gly Ala Asn Glu
35 40 45

PC10343B Sequence Listing

Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala
50 55 60

Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg
65 70 75 80

His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln
85 90 95

Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser
100 105 110

Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala
115 120 125

Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys
130 135 140

Lys Tyr Leu Asn Ser Ile Leu Asn Gly Lys Arg Ser Ser Glu Gly Glu
145 150 155 160

Ser Pro Asp Phe Pro Glu Glu Leu Glu Lys
165 170

<210> 16
<211> 1511
<212> DNA
<213> Homo Sapiens

<400> 16
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gacagaatac cctttgaggg agcaaatgaa cctgatcaag tttcattaaa agaagacatt 240
gacatgttgc aaaatgcatt agctgaaaat gacacaccct attatgatgt atccagaaat 300
gccaggcatg ctgatggagt tttcaccagt gacttcagta aactcttggg tcaactttct 360
gccaaaaagt accttgagtc tcttatggga aaacgtgtta gcagtaacat ctcagaagac 420
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ttagattcta cataagtaat tcaagaaaac aacttcaata tccaaaccaa ataaaaatat 720
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PC10343B Sequence Listing

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gagtgtactt aactattcag gagagtagaa cagataatca gtgtgtctaa atttgaatgt    1020
taagcagatg gaatgctgtg ttaaataaac ctcaaaatgt ctaagatagt aacaatgaag    1080
ataaaaagac attcttccaa aaagattttc agaaaatatt atgtgtttcc atattttata    1140
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tcaataataa atatttttgc cataatgact cagaatattg ctttggtcac atgagcttcc    1380
ttctgtgaaa tacatttttg agacacaact atttttccaa aataatttta agaaatcaaa    1440
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aaaaaaaaaa a                                                              1511

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<210> 17
<211> 170
<212> PRT
<213> Homo Sapiens

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<400> 17

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Met Asp Thr Arg Asn Lys Ala Gln Leu Leu Val Leu Leu Thr Leu Leu
1          5          10          15

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Ser Val Leu Phe Ser Gln Thr Ser Ala Trp Pro Leu Tyr Arg Ala Pro
20          25          30

```

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Ser Ala Leu Arg Leu Gly Asp Arg Ile Pro Phe Glu Gly Ala Asn Glu
35          40          45

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Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala
50          55          60

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Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg
65          70          75          80

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His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln
85          90          95

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Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser
100         105         110

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PC10343B Sequence Listing

Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala
115 120 125

Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys
130 135 140

Lys Tyr Leu Asn Ser Ile Leu Asn Gly Lys Arg Ser Ser Glu Gly Glu
145 150 155 160

Ser Pro Asp Phe Pro Glu Glu Leu Glu Lys
165 170

<210> 18
<211> 1511
<212> DNA
<213> Homo Sapiens

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gacatgttgc aaaatgcatt agctgaaaat gacacaccct attatgatgt atccagaaat 300
gccaggcatg ctgatggagt tttcaccagt gacttcagta aactcttggg tcaactttct 360
gccaaaaagt accttgagtc tcttatggga aaacgtgtta gcagtaacat ctcagaagac 420
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PC10343B Sequence Listing

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<210> 19
<211> 438
<212> PRT
<213> Homo Sapiens

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<400> 19

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Pro Val Asn Ser Ile His Pro Glu Cys Arg Phe His Leu Glu Ile Gln
20      25      30

Glu Glu Glu Thr Lys Cys Thr Glu Leu Leu Arg Ser Gln Thr Glu Lys
35      40      45

His Lys Ala Cys Ser Gly Val Trp Asp Asn Ile Thr Cys Trp Arg Pro
50      55      60

Ala Asn Val Gly Glu Thr Val Thr Val Pro Cys Pro Lys Val Phe Ser
65      70      75      80

Asn Phe Tyr Ser Lys Ala Gly Asn Ile Ser Lys Asn Cys Thr Ser Asp
85      90      95

Gly Trp Ser Glu Thr Phe Pro Asp Phe Val Asp Ala Cys Gly Tyr Ser
100     105     110

Asp Pro Glu Asp Glu Ser Lys Ile Thr Phe Tyr Ile Leu Val Lys Ala
115     120     125

Ile Tyr Thr Leu Gly Tyr Ser Val Ser Leu Met Ser Leu Ala Thr Gly
130     135     140

Ser Ile Ile Leu Cys Leu Phe Arg Lys Leu His Cys Thr Arg Asn Tyr
145     150     155     160

Ile His Leu Asn Leu Phe Leu Ser Phe Ile Leu Arg Ala Ile Ser Val
165     170     175

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PC10343B Sequence Listing

Leu Val Lys Asp Asp Val Leu Tyr Ser Ser Ser Gly Thr Leu His Cys
 180 185 190
 Pro Asp Gln Pro Ser Ser Trp Val Gly Cys Lys Leu Ser Leu Val Phe
 195 200 205
 Leu Gln Tyr Cys Ile Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly
 210 215 220
 Leu Tyr Leu His Thr Leu Leu Val Ala Met Leu Pro Pro Arg Arg Cys
 225 230 235 240
 Phe Leu Ala Tyr Leu Leu Ile Gly Trp Gly Leu Pro Thr Val Cys Ile
 245 250 255
 Gly Ala Trp Thr Ala Ala Arg Leu Tyr Leu Glu Asp Thr Gly Cys Trp
 260 265 270
 Asp Thr Asn Asp His Ser Val Pro Trp Trp Val Ile Arg Ile Pro Ile
 275 280 285
 Leu Ile Ser Ile Ile Val Asn Phe Val Leu Phe Ile Ser Ile Ile Arg
 290 295 300
 Ile Leu Leu Gln Lys Leu Thr Ser Pro Asp Val Gly Gly Asn Asp Gln
 305 310 315 320
 Ser Gln Tyr Lys Arg Leu Ala Lys Ser Thr Leu Leu Leu Ile Pro Leu
 325 330 335
 Phe Gly Val His Tyr Met Val Phe Ala Val Phe Pro Ile Ser Ile Ser
 340 345 350
 Ser Lys Tyr Gln Ile Leu Phe Glu Leu Cys Leu Gly Ser Phe Gln Gly
 355 360 365
 Leu Val Val Ala Val Leu Tyr Cys Phe Leu Asn Ser Glu Val Gln Cys
 370 375 380
 Glu Leu Lys Arg Lys Trp Arg Ser Arg Cys Pro Thr Pro Ser Ala Ser
 385 390 395 400
 Arg Asp Tyr Arg Val Cys Gly Ser Ser Phe Ser His Asn Gly Ser Glu
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 Gly Ala Leu Gln Phe His Arg Ala Ser Arg Ala Gln Ser Phe Leu Gln
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PC10343B Sequence Listing

Thr Glu Thr Ser Val Ile
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<210> 20
<211> 1640
<212> DNA
<213> Homo Sapiens

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PC10343B Sequence Listing

agatgcccga gcaccgtgtc gggcagggtca gcgcggtcct gactccgtca agctggttgt	1620
ccactaaacc ccatacctgg	1640

PC10343B Sequence Listing
SEQUENCE LISTING

<110> Pfizer Inc.
Pfizer Limited
Maw, Graham Nigel
Wayman, Christopher Peter

<120> Compounds for the Treatment of Female Sexual Dysfunction

<130> PC10343B

<150> US 09/708,392
<151> 2000-11-08

<150> US 60/175,161
<151> 2000-03-29

<150> GB 9926437.6
<151> 1999-11-08

<150> GB 0004021.2
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<150> US 60/192,962
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<150> US 60/221,014
<151> 2000-07-27

<150> US 60/221,093
<151> 2000-07-27

<160> 20

<170> PatentIn version 3.2

<210> 1
<211> 743
<212> PRT
<213> Homo Sapiens

<400> 1

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Trp Thr Pro Leu Glu Ile Ser Leu Ser Val Leu Val Leu Leu Thr
20 25 30

PC10343B Sequence Listing

Ile Ile Ala Val Thr Met Ile Ala Leu Tyr Ala Thr Tyr Asp Asp Gly
35 40 45

Ile Cys Lys Ser Ser Asp Cys Ile Lys Ser Ala Ala Arg Leu Ile Gln
50 55 60

Asn Met Asp Ala Thr Thr Glu Pro Cys Thr Asp Phe Phe Lys Tyr Ala
65 70 75 80

Cys Gly Gly Trp Leu Lys Arg Asn Val Ile Pro Glu Thr Ser Ser Arg
85 90 95

Tyr Gly Asn Phe Asp Ile Leu Arg Asp Glu Leu Glu Val Val Leu Lys
100 105 110

Asp Val Leu Gln Glu Pro Lys Thr Glu Asp Ile Val Ala Val Gln Lys
115 120 125

Ala Lys Ala Leu Tyr Arg Ser Cys Ile Asn Glu Ser Ala Ile Asp Ser
130 135 140

Arg Gly Gly Glu Pro Leu Leu Lys Leu Leu Pro Asp Ile Tyr Gly Trp
145 150 155 160

Pro Val Ala Thr Glu Asn Trp Glu Gln Lys Tyr Gly Ala Ser Trp Thr
165 170 175

Ala Glu Lys Ala Ile Ala Gln Leu Asn Ser Lys Tyr Gly Lys Lys Val
180 185 190

Leu Ile Asn Leu Phe Val Gly Thr Asp Asp Lys Asn Ser Val Asn His
195 200 205

Val Ile His Ile Asp Gln Pro Arg Leu Gly Leu Pro Ser Arg Asp Tyr
210 215 220

Tyr Glu Cys Thr Gly Ile Tyr Lys Glu Ala Cys Thr Ala Tyr Val Asp
225 230 235 240

Phe Met Ile Ser Val Ala Arg Leu Ile Arg Gln Glu Glu Arg Leu Pro
245 250 255

Ile Asp Glu Asn Gln Leu Ala Leu Glu Met Asn Lys Val Met Glu Leu
260 265 270

Glu Lys Glu Ile Ala Asn Ala Thr Ala Lys Pro Glu Asp Arg Asn Asp
275 280 285

PC10343B Sequence Listing

Pro Met Leu Leu Tyr Asn Lys Met Thr Leu Ala Gln Ile Gln Asn Asn
290 295 300

Phe Ser Leu Glu Ile Asn Gly Lys Pro Phe Ser Trp Leu Asn Phe Thr
305 310 315 320

Asn Glu Ile Met Ser Thr Val Asn Ile Ser Ile Thr Asn Glu Glu Asp
325 330 335

Val Val Val Tyr Ala Pro Glu Tyr Leu Thr Lys Leu Lys Pro Ile Leu
340 345 350

Thr Lys Tyr Ser Ala Arg Asp Leu Gln Asn Leu Met Ser Trp Arg Phe
355 360 365

Ile Met Asp Leu Val Ser Ser Leu Ser Arg Thr Tyr Lys Glu Ser Arg
370 375 380

Asn Ala Phe Arg Lys Ala Leu Tyr Gly Thr Thr Ser Glu Thr Ala Thr
385 390 395 400

Trp Arg Arg Cys Ala Asn Tyr Val Asn Gly Asn Met Glu Asn Ala Val
405 410 415

Gly Arg Leu Tyr Val Glu Ala Ala Phe Ala Gly Glu Ser Lys His Val
420 425 430

Val Glu Asp Leu Ile Ala Gln Ile Arg Glu Val Phe Ile Gln Thr Leu
435 440 445

Asp Asp Leu Thr Trp Met Asp Ala Glu Thr Lys Lys Arg Ala Glu Glu
450 455 460

Lys Ala Leu Ala Ile Lys Glu Arg Ile Gly Tyr Pro Asp Asp Ile Val
465 470 475 480

Ser Asn Asp Asn Lys Leu Asn Asn Glu Tyr Leu Glu Leu Asn Tyr Lys
485 490 495

Glu Asp Glu Tyr Phe Glu Asn Ile Ile Gln Asn Leu Lys Phe Ser Gln
500 505 510

Ser Lys Gln Leu Lys Lys Leu Arg Glu Lys Val Asp Lys Asp Glu Trp
515 520 525

Ile Ser Gly Ala Ala Val Val Asn Ala Phe Tyr Ser Ser Gly Arg Asn
530 535 540

PC10343B Sequence Listing

Gln Ile Val Phe Pro Ala Gly Ile Leu Gln Pro Pro Phe Phe Ser Ala
545 550 555 560

Gln Gln Ser Asn Ser Leu Asn Tyr Gly Gly Ile Gly Met Val Ile Gly
565 570 575

His Glu Ile Thr His Gly Phe Asp Asp Asn Gly Arg Asn Phe Asn Lys
580 585 590

Asp Gly Asp Leu Val Asp Trp Trp Thr Gln Gln Ser Ala Ser Asn Phe
595 600 605

Lys Glu Gln Ser Gln Cys Met Val Tyr Gln Tyr Gly Asn Phe Ser Trp
610 615 620

Asp Leu Ala Gly Gly Gln His Leu Asn Gly Ile Asn Thr Leu Gly Glu
625 630 635 640

Asn Ile Ala Asp Asn Gly Gly Leu Gly Gln Ala Tyr Arg Ala Tyr Gln
645 650 655

Asn Tyr Ile Lys Lys Asn Gly Glu Glu Lys Leu Leu Pro Gly Leu Asp
660 665 670

Leu Asn His Lys Gln Leu Phe Phe Leu Asn Phe Ala Gln Val Trp Cys
675 680 685

Gly Thr Tyr Arg Pro Glu Tyr Ala Val Asn Ser Ile Lys Thr Asp Val
690 695 700

His Ser Pro Gly Asn Phe Arg Ile Ile Gly Thr Leu Gln Asn Ser Ala
705 710 715 720

Glu Phe Ser Glu Ala Phe His Cys Arg Lys Asn Ser Tyr Met Asn Pro
725 730 735

Glu Lys Lys Cys Arg Val Trp
740

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<211> 3181
<212> DNA
<213> Homo Sapiens

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PC10343B Sequence Listing

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PC10343B Sequence Listing

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<210> 3
 <211> 535
 <212> PRT
 <213> Homo Sapiens

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			20					25					30		

Gly	Ile	Leu	Arg	Cys	Leu	Val	Lys	Gln	Leu	Glu	Arg	Gly	Asp	Val	Asn
		35					40					45			

Val	Val	Asp	Leu	Lys	Lys	Asn	Ile	Glu	Tyr	Ala	Ala	Ser	Val	Leu	Glu
Page 6															

PC10343B Sequence Listing

50

55

60

Ala Val Tyr Ile Asp Glu Thr Arg Arg Leu Leu Asp Thr Glu Asp Glu
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Leu Ser Asp Ile Gln Thr Asp Ser Val Pro Ser Glu Val Arg Asp Trp
85 90 95

Leu Ala Ser Thr Phe Thr Arg Lys Met Gly Met Thr Lys Lys Lys Pro
100 105 110

Glu Glu Lys Pro Lys Phe Arg Ser Ile Val His Ala Val Gln Ala Gly
115 120 125

Ile Phe Val Glu Arg Met Tyr Arg Lys Thr Tyr His Met Val Gly Leu
130 135 140

Ala Tyr Pro Ala Ala Val Ile Val Thr Leu Lys Asp Val Asp Lys Trp
145 150 155 160

Ser Phe Asp Val Phe Ala Leu Asn Glu Ala Ser Gly Glu His Ser Leu
165 170 175

Lys Phe Met Ile Tyr Glu Leu Phe Thr Arg Tyr Asp Leu Ile Asn Arg
180 185 190

Phe Lys Ile Pro Val Ser Cys Leu Ile Thr Phe Ala Glu Ala Leu Glu
195 200 205

Val Gly Tyr Ser Lys Tyr Lys Asn Pro Tyr His Asn Leu Ile His Ala
210 215 220

Ala Asp Val Thr Gln Thr Val His Tyr Ile Met Leu His Thr Gly Ile
225 230 235 240

Met His Trp Leu Thr Glu Leu Glu Ile Leu Ala Met Val Phe Ala Ala
245 250 255

Ala Ile His Asp Tyr Glu His Thr Gly Thr Thr Asn Asn Phe His Ile
260 265 270

Gln Thr Arg Ser Asp Val Ala Ile Leu Tyr Asn Asp Arg Ser Val Leu
275 280 285

Glu Asn His His Val Ser Ala Ala Tyr Arg Leu Met Gln Glu Glu Glu
290 295 300

PC10343B Sequence Listing

Met Asn Ile Leu Ile Asn Leu Ser Lys Asp Asp Trp Arg Asp Leu Arg
 305 310 315 320

Asn Leu Val Ile Glu Met Val Leu Ser Thr Asp Met Ser Gly His Phe
 325 330 335

Gln Gln Ile Lys Asn Ile Arg Asn Ser Leu Gln Gln Pro Glu Gly Ile
 340 345 350

Asp Arg Ala Lys Thr Met Ser Leu Ile Leu His Ala Ala Asp Ile Ser
 355 360 365

His Pro Ala Lys Ser Trp Lys Leu His Tyr Arg Trp Thr Met Ala Leu
 370 375 380

Met Glu Glu Phe Phe Leu Gln Gly Asp Lys Glu Ala Glu Leu Gly Leu
 385 390 395 400

Pro Phe Ser Pro Leu Cys Asp Arg Lys Ser Thr Met Val Ala Gln Ser
 405 410 415

Gln Ile Gly Phe Ile Asp Phe Ile Val Glu Pro Thr Phe Ser Leu Leu
 420 425 430

Thr Asp Ser Thr Glu Lys Ile Val Ile Pro Leu Ile Glu Glu Ala Ser
 435 440 445

Lys Ala Glu Thr Ser Ser Tyr Val Ala Ser Ser Ser Thr Thr Ile Val
 450 455 460

Gly Leu His Ile Ala Asp Ala Leu Arg Arg Ser Asn Thr Lys Gly Ser
 465 470 475 480

Met Ser Asp Gly Ser Tyr Ser Pro Asp Tyr Ser Leu Ala Ala Val Asp
 485 490 495

Leu Lys Ser Phe Lys Asn Asn Leu Val Asp Ile Ile Gln Gln Asn Lys
 500 505 510

Glu Arg Trp Lys Glu Leu Ala Ala Gln Glu Ala Arg Thr Ser Ser Gln
 515 520 525

Lys Cys Glu Phe Ile His Gln
 530 535

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 <211> 2008
 <212> DNA

PC10343B Sequence Listing

<213> Homo Sapiens

<400> 4

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aacaccactt ttaagtatct tacaggagaa cagactgaaa aaatgtggca ggcctgaaa	180
ggaatactaa gatgcttggt gaagcagctg gaaagaggtg atgttaacgt cgtcgactta	240
aagaagaata ttgaatatgc ggcattctgt ctggaagcag tttatatcga tgaaacaaga	300
agacttctgg atactgaaga tgagctcagt gacattcaga ctgactcagt cccatctgaa	360
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gagaggtgga aagagttagc tgcacaagaa gcaagaacca gttcacagaa gtgtgagttt	1680
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PC10343B Sequence Listing

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caataaattt tctttgagca aaaaaaaaa 2008

<210> 5
<211> 941
<212> PRT
<213> Homo Sapiens

<400> 5

Met Gly Gln Ala Cys Gly His Ser Ile Leu Cys Arg Ser Gln Gln Tyr
1 5 10 15

Pro Ala Ala Arg Pro Ala Glu Pro Arg Gly Gln Gln Val Phe Leu Lys
20 25 30

Pro Asp Glu Pro Pro Pro Pro Pro Gln Pro Cys Ala Asp Ser Leu Gln
35 40 45

Asp Ala Leu Leu Ser Leu Gly Ser Val Ile Asp Ile Ser Gly Leu Gln
50 55 60

Arg Ala Val Lys Glu Ala Leu Ser Ala Val Leu Pro Arg Val Glu Thr
65 70 75 80

Val Tyr Thr Tyr Leu Leu Asp Gly Glu Ser Gln Leu Val Cys Glu Asp
85 90 95

Pro Pro His Glu Leu Pro Gln Glu Gly Lys Val Arg Glu Ala Ile Ile
100 105 110

Ser Gln Lys Arg Leu Gly Cys Asn Gly Leu Gly Phe Ser Asp Leu Pro
115 120 125

Gly Lys Pro Leu Ala Arg Leu Val Ala Pro Leu Ala Pro Asp Thr Gln
130 135 140

Val Leu Val Met Pro Leu Ala Asp Lys Glu Ala Gly Ala Val Ala Ala
145 150 155 160

Val Ile Leu Val His Cys Gly Gln Leu Ser Asp Asn Glu Glu Trp Ser
165 170 175

Leu Gln Ala Val Glu Lys His Thr Leu Val Ala Leu Arg Arg Val Gln
180 185 190

PC10343B Sequence Listing

Val Leu Gln Gln Arg Gly Pro Arg Glu Ala Pro Arg Ala Val Gln Asn
195 200 205

Pro Pro Glu Gly Thr Ala Glu Asp Gln Lys Gly Gly Ala Ala Tyr Thr
210 215 220

Asp Arg Asp Arg Lys Ile Leu Gln Leu Cys Gly Glu Leu Tyr Asp Leu
225 230 235 240

Asp Ala Ser Ser Leu Gln Leu Lys Val Leu Gln Tyr Leu Gln Gln Glu
245 250 255

Thr Arg Ala Ser Arg Cys Cys Leu Leu Leu Val Ser Glu Asp Asn Leu
260 265 270

Gln Leu Ser Cys Lys Val Ile Gly Asp Lys Val Leu Gly Glu Glu Val
275 280 285

Ser Phe Pro Leu Thr Gly Cys Leu Gly Gln Val Val Glu Asp Lys Lys
290 295 300

Ser Ile Gln Leu Lys Asp Leu Thr Ser Glu Asp Val Gln Gln Leu Gln
305 310 315 320

Ser Met Leu Gly Cys Glu Leu Gln Ala Met Leu Cys Val Pro Val Ile
325 330 335

Ser Arg Ala Thr Asp Gln Val Val Ala Leu Ala Cys Ala Phe Asn Lys
340 345 350

Leu Glu Gly Asp Leu Phe Thr Asp Glu Asp Glu His Val Ile Gln His
355 360 365

Cys Phe His Tyr Thr Ser Thr Val Leu Thr Ser Thr Leu Ala Phe Gln
370 375 380

Lys Glu Gln Lys Leu Lys Cys Glu Cys Gln Ala Leu Leu Gln Val Ala
385 390 395 400

Lys Asn Leu Phe Thr His Leu Asp Asp Val Ser Val Leu Leu Gln Glu
405 410 415

Ile Ile Thr Glu Ala Arg Asn Leu Ser Asn Ala Glu Ile Cys Ser Val
420 425 430

Phe Leu Leu Asp Gln Asn Glu Leu Val Ala Lys Val Phe Asp Gly Gly
435 440 445

PC10343B Sequence Listing

Val Val Asp Asp Glu Ser Tyr Glu Ile Arg Ile Pro Ala Asp Gln Gly
450 455 460

Ile Ala Gly His Val Ala Thr Thr Gly Gln Ile Leu Asn Ile Pro Asp
465 470 475 480

Ala Tyr Ala His Pro Leu Phe Tyr Arg Gly Val Asp Asp Ser Thr Gly
485 490 495

Phe Arg Thr Arg Asn Ile Leu Cys Phe Pro Ile Lys Asn Glu Asn Gln
500 505 510

Glu Val Ile Gly Val Ala Glu Leu Val Asn Lys Ile Asn Gly Pro Trp
515 520 525

Phe Ser Lys Phe Asp Glu Asp Leu Ala Thr Ala Phe Ser Ile Tyr Cys
530 535 540

Gly Ile Ser Ile Ala His Ser Leu Leu Tyr Lys Lys Val Asn Glu Ala
545 550 555 560

Gln Tyr Arg Ser His Leu Ala Asn Glu Met Met Met Tyr His Met Lys
565 570 575

Val Ser Asp Asp Glu Tyr Thr Lys Leu Leu His Asp Gly Ile Gln Pro
580 585 590

Val Ala Ala Ile Asp Ser Asn Phe Ala Ser Phe Thr Tyr Thr Pro Arg
595 600 605

Ser Leu Pro Glu Asp Asp Thr Ser Met Ala Ile Leu Ser Met Leu Gln
610 615 620

Asp Met Asn Phe Ile Asn Asn Tyr Lys Ile Asp Cys Pro Thr Leu Ala
625 630 635 640

Arg Phe Cys Leu Met Val Lys Lys Gly Tyr Arg Asp Pro Pro Tyr His
645 650 655

Asn Trp Met His Ala Phe Ser Val Ser His Phe Cys Tyr Leu Leu Tyr
660 665 670

Lys Asn Leu Glu Leu Thr Asn Tyr Leu Glu Asp Ile Glu Ile Phe Ala
675 680 685

Leu Phe Ile Ser Cys Met Cys His Asp Leu Asp His Arg Gly Thr Asn
685 690 695

PC10343B Sequence Listing

690		695		700
Asn Ser Phe Gln Val	Ala Ser Lys Ser Val	Leu Ala Ala Leu Tyr Ser		
705	710	715		720
Ser Glu Gly Ser Val	Met Glu Arg His His	Phe Ala Gln Ala Ile Ala		
	725	730		735
Ile Leu Asn Thr His	Gly Cys Asn Ile	Phe Asp His Phe Ser Arg Lys		
	740	745		750
Asp Tyr Gln Arg Met	Leu Asp Leu Met Arg Asp Ile Ile	Leu Ala Thr		
	755	760		765
Asp Leu Ala His His	Leu Arg Ile Phe Lys Asp Leu	Gln Lys Met Ala		
	770	775		780
Glu Val Gly Tyr Asp	Arg Asn Asn Lys Gln His His	Arg Leu Leu Leu		
	790	795		800
Cys Leu Leu Met Thr	Ser Cys Asp Leu Ser Asp Gln Thr Lys Gly Trp			
	805	810		815
Lys Thr Thr Arg Lys	Ile Ala Glu Leu Ile Tyr Lys Glu Phe Phe Ser			
	820	825		830
Gln Gly Asp Leu Glu	Lys Ala Met Gly Asn Arg Pro Met Glu Met Met			
	835	840		845
Asp Arg Glu Lys Ala	Tyr Ile Pro Glu Leu Gln Ile Ser Phe Met Glu			
	850	855		860
His Ile Ala Met Pro	Ile Tyr Lys Leu Leu Gln Asp Leu Phe Pro Lys			
	865	870		875
Ala Ala Glu Leu Tyr	Glu Arg Val Ala Ser Asn Arg Glu His Trp Thr			
	885	890		895
Lys Val Ser His Lys	Phe Thr Ile Arg Gly Leu Pro Ser Asn Asn Ser			
	900	905		910
Leu Asp Phe Leu Asp	Glu Glu Tyr Glu Val Pro Asp Leu Asp Gly Thr			
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Arg Ala Pro Ile Asn	Gly Cys Cys Ser Leu Asp Ala Glu			
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PC10343B Sequence Listing

<210> 6
 <211> 4240
 <212> DNA
 <213> Homo Sapiens

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PC10343B Sequence Listing

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PC10343B Sequence Listing

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<211> 97
<212> PRT
<213> Homo Sapiens

<400> 7

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20 25 30

Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
35 40 45

Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
50 55 60

Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg
65 70 75 80

Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met
85 90 95

Trp

<210> 8
<211> 551
<212> DNA
<213> Homo Sapiens

PC10343B Sequence Listing

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 aagaccctgc aatgtggtga tgggaaatga gacttgctct ctggcctttt cctattttca 420
 gcccatatatt catcgtgtaa aacgagaatc cacccatcct accaatgcat gcagccactg 480
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<210> 9
 <211> 384
 <212> PRT
 <213> Homo Sapiens

<400> 9

Met Asn Ser Thr Leu Phe Ser Gln Val Glu Asn His Ser Val His Ser
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Asn Phe Ser Glu Lys Asn Ala Gln Leu Leu Ala Phe Glu Asn Asp Asp
 20 25 30

Cys His Leu Pro Leu Ala Met Ile Phe Thr Leu Ala Leu Ala Tyr Gly
 35 40 45

Ala Val Ile Ile Leu Gly Val Ser Gly Asn Leu Ala Leu Ile Ile Ile
 50 55 60

Ile Leu Lys Gln Lys Glu Met Arg Asn Val Thr Asn Ile Leu Ile Val
 65 70 75 80

Asn Leu Ser Phe Ser Asp Leu Leu Val Ala Ile Met Cys Leu Pro Phe
 85 90 95

Thr Phe Val Tyr Thr Leu Met Asp His Trp Val Phe Gly Glu Ala Met
 100 105 110

Cys Lys Leu Asn Pro Phe Val Gln Cys Val Ser Ile Thr Val Ser Ile
 115 120 125

Phe Ser Leu Val Leu Ile Ala Val Glu Arg His Gln Leu Ile Ile Asn
 130 135 140

PC10343B Sequence Listing

Pro Arg Gly Trp Arg Pro Asn Asn Arg His Ala Tyr Val Gly Ile Ala
145 150 155 160

Val Ile Trp Val Leu Ala Val Ala Ser Ser Leu Pro Phe Leu Ile Tyr
165 170 175

Gln Val Met Thr Asp Glu Pro Phe Gln Asn Val Thr Leu Asp Ala Tyr
180 185 190

Lys Asp Lys Tyr Val Cys Phe Asp Gln Phe Pro Ser Asp Ser His Arg
195 200 205

Leu Ser Tyr Thr Thr Leu Leu Leu Val Leu Gln Tyr Phe Gly Pro Leu
210 215 220

Cys Phe Ile Phe Ile Cys Tyr Phe Lys Ile Tyr Ile Arg Leu Lys Arg
225 230 235 240

Arg Asn Asn Met Met Asp Lys Met Arg Asp Asn Lys Tyr Arg Ser Ser
245 250 255

Glu Thr Lys Arg Ile Asn Ile Met Leu Leu Ser Ile Val Val Ala Phe
260 265 270

Ala Val Cys Trp Leu Pro Leu Thr Ile Phe Asn Thr Val Phe Asp Trp
275 280 285

Asn His Gln Ile Ile Ala Thr Cys Asn His Asn Leu Leu Phe Leu Leu
290 295 300

Cys His Leu Thr Ala Met Ile Ser Thr Cys Val Asn Pro Ile Phe Tyr
305 310 315 320

Gly Phe Leu Asn Lys Asn Phe Gln Arg Asp Leu Gln Phe Phe Phe Asn
325 330 335

Phe Cys Asp Phe Arg Ser Arg Asp Asp Asp Tyr Glu Thr Ile Ala Met
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Ser Thr Met His Thr Asp Val Ser Lys Thr Ser Leu Lys Gln Ala Ser
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Pro Val Ala Phe Lys Lys Ile Asn Asn Asn Asp Asp Asn Glu Lys Ile
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<210> 10

PC10343B Sequence Listing

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PC10343B Sequence Listing

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 <212> PRT
 <213> Homo Sapiens

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Val	Pro	Asp	Pro	Glu	Pro	Glu	Leu	Ile	Asp	Ser	Thr	Lys	Leu	Ile	Glu
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PC10343B Sequence Listing

Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu Ala Val Ala Asp
85 90 95

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Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His Leu Val Pro Tyr
115 120 125

Ala Gln Gly Leu Ala Val Gln Val Ser Thr Ile Thr Leu Thr Val Ile
130 135 140

Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu Glu Ser Lys Ile
145 150 155 160

Ser Lys Arg Ile Ser Phe Leu Ile Ile Gly Leu Ala Trp Gly Ile Ser
165 170 175

Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu Tyr Ser Leu Ile
180 185 190

Glu Ile Ile Pro Asp Phe Glu Ile Val Ala Cys Thr Glu Lys Trp Pro
195 200 205

Gly Glu Glu Lys Ser Ile Tyr Gly Thr Val Tyr Ser Leu Ser Ser Leu
210 215 220

Leu Ile Leu Tyr Val Leu Pro Leu Gly Ile Ile Ser Phe Ser Tyr Thr
225 230 235 240

Arg Ile Trp Ser Lys Leu Lys Asn His Val Ser Pro Gly Ala Ala Asn
245 250 255

Asp His Tyr His Gln Arg Arg Gln Lys Thr Thr Lys Met Leu Val Cys
260 265 270

Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu His Ala Phe Gln
275 280 285

Leu Ala Val Asp Ile Asp Ser Gln Val Leu Asp Leu Lys Glu Tyr Lys
290 295 300

Leu Ile Phe Thr Val Phe His Ile Ile Ala Met Cys Ser Thr Phe Ala
305 310 315 320

Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr Arg Lys Ala Phe
325 330 335

PC10343B Sequence Listing

Leu Ser Ala Phe Arg Cys Glu Gln Arg Leu Asp Ala Ile His Ser Glu
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Val Ser Val Thr Phe Lys Ala Lys Lys Asn Leu Glu Val Arg Lys Asn
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Ser Gly Pro Asn Asp Ser Phe Thr Glu Ala Thr Asn Val
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<212> DNA
<213> Homo Sapiens

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<210> 13
<211> 445

PC10343B Sequence Listing

<212> PRT

<213> Homo Sapiens

<400> 13

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 20 25 30

Tyr Lys Ser Ser Val Asp Asp Leu Gln Tyr Phe Leu Ile Gly Leu Tyr
 35 40 45

Thr Phe Val Ser Leu Leu Gly Phe Met Gly Asn Leu Leu Ile Leu Met
 50 55 60

Ala Leu Met Lys Lys Arg Asn Gln Lys Thr Thr Val Asn Phe Leu Ile
 65 70 75 80

Gly Asn Leu Ala Phe Ser Asp Ile Leu Val Val Leu Phe Cys Ser Pro
 85 90 95

Phe Thr Leu Thr Ser Val Leu Leu Asp Gln Trp Met Phe Gly Lys Val
 100 105 110

Met Cys His Ile Met Pro Phe Leu Gln Cys Val Ser Val Leu Val Ser
 115 120 125

Thr Leu Ile Leu Ile Ser Ile Ala Ile Val Arg Tyr His Met Ile Lys
 130 135 140

His Pro Ile Ser Asn Asn Leu Thr Ala Asn His Gly Tyr Phe Leu Ile
 145 150 155 160

Ala Thr Val Trp Thr Leu Gly Phe Ala Ile Cys Ser Pro Leu Pro Val
 165 170 175

Phe His Ser Leu Val Glu Leu Gln Glu Thr Phe Gly Ser Ala Leu Leu
 180 185 190

Ser Ser Arg Tyr Leu Cys Val Glu Ser Trp Pro Ser Asp Ser Tyr Arg
 195 200 205

Ile Ala Phe Thr Ile Ser Leu Leu Leu Val Gln Tyr Ile Leu Pro Leu
 210 215 220

Val Cys Leu Thr Val Ser His Thr Ser Val Cys Arg Ser Ile Ser Cys
 225 230 235 240

PC10343B Sequence Listing

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Leu Thr Leu His Pro Ser Lys Lys Ser Gly Pro Gln Val Lys Leu Ser
260 265 270

Gly Ser His Lys Trp Ser Tyr Ser Phe Ile Lys Lys His Arg Arg Arg
275 280 285

Tyr Ser Lys Lys Thr Ala Cys Val Leu Pro Ala Pro Glu Arg Pro Ser
290 295 300

Gln Glu Asn His Ser Arg Ile Leu Pro Glu Asn Phe Gly Ser Val Arg
305 310 315 320

Ser Gln Leu Ser Ser Ser Ser Lys Phe Ile Pro Gly Val Pro Thr Cys
325 330 335

Phe Glu Ile Lys Pro Glu Glu Asn Ser Asp Val His Glu Leu Arg Val
340 345 350

Lys Arg Ser Val Thr Arg Ile Lys Lys Arg Ser Arg Ser Val Phe Tyr
355 360 365

Arg Leu Thr Ile Leu Ile Leu Val Phe Ala Val Ser Trp Met Pro Leu
370 375 380

His Leu Phe His Val Val Thr Asp Phe Asn Asp Asn Leu Ile Ser Asn
385 390 395 400

Arg His Phe Lys Leu Val Tyr Cys Ile Cys His Leu Leu Gly Met Met
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<210> 14
<211> 1370
<212> DNA
<213> Homo Sapiens

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Page 24

PC10343B Sequence Listing

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<210> 15
 <211> 170
 <212> PRT
 <213> Homo Sapiens

<400> 15

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Ser Val Leu Phe Ser Gln Thr Ser Ala Trp Pro Leu Tyr Arg Ala Pro
 20 25 30

Ser Ala Leu Arg Leu Gly Asp Arg Ile Pro Phe Glu Gly Ala Asn Glu
 35 40 45

PC10343B Sequence Listing

Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala
50 55 60

Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg
65 70 75 80

His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln
85 90 95

Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser
100 105 110

Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala
115 120 125

Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys
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Lys Tyr Leu Asn Ser Ile Leu Asn Gly Lys Arg Ser Ser Glu Gly Glu
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Ser Pro Asp Phe Pro Glu Glu Leu Glu Lys
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<210> 16
<211> 1511
<212> DNA
<213> Homo Sapiens

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PC10343B Sequence Listing

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<210> 17
<211> 170
<212> PRT
<213> Homo Sapiens

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<400> 17

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Met Asp Thr Arg Asn Lys Ala Gln Leu Leu Val Leu Leu Thr Leu Leu
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```

Ser Val Leu Phe Ser Gln Thr Ser Ala Trp Pro Leu Tyr Arg Ala Pro
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```

```

Ser Ala Leu Arg Leu Gly Asp Arg Ile Pro Phe Glu Gly Ala Asn Glu
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```

```

Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala
          50          55          60

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```

Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg
65          70          75          80

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His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln
          85          90          95

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Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser
          100          105          110

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PC10343B Sequence Listing

Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala
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Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys
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Lys Tyr Leu Asn Ser Ile Leu Asn Gly Lys Arg Ser Ser Glu Gly Glu
145 150 155 160

Ser Pro Asp Phe Pro Glu Glu Leu Glu Lys
165 170

<210> 18
<211> 1511
<212> DNA
<213> Homo Sapiens

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PC10343B Sequence Listing

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<210> 19
<211> 438
<212> PRT
<213> Homo Sapiens

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<400> 19

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```

Pro Val Asn Ser Ile His Pro Glu Cys Arg Phe His Leu Glu Ile Gln
20          25          30

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```

Glu Glu Glu Thr Lys Cys Thr Glu Leu Leu Arg Ser Gln Thr Glu Lys
35          40          45

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His Lys Ala Cys Ser Gly Val Trp Asp Asn Ile Thr Cys Trp Arg Pro
50          55          60

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```

Ala Asn Val Gly Glu Thr Val Thr Val Pro Cys Pro Lys Val Phe Ser
65          70          75          80

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Asn Phe Tyr Ser Lys Ala Gly Asn Ile Ser Lys Asn Cys Thr Ser Asp
85          90          95

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Gly Trp Ser Glu Thr Phe Pro Asp Phe Val Asp Ala Cys Gly Tyr Ser
100          105          110

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Asp Pro Glu Asp Glu Ser Lys Ile Thr Phe Tyr Ile Leu Val Lys Ala
115          120          125

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Ile Tyr Thr Leu Gly Tyr Ser Val Ser Leu Met Ser Leu Ala Thr Gly
130          135          140

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```

Ser Ile Ile Leu Cys Leu Phe Arg Lys Leu His Cys Thr Arg Asn Tyr
145          150          155          160

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Ile His Leu Asn Leu Phe Leu Ser Phe Ile Leu Arg Ala Ile Ser Val
165          170          175

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PC10343B Sequence Listing

Leu Val Lys Asp Asp Val Leu Tyr Ser Ser Ser Gly Thr Leu His Cys
180 185 190

Pro Asp Gln Pro Ser Ser Trp Val Gly Cys Lys Leu Ser Leu Val Phe
195 200 205

Leu Gln Tyr Cys Ile Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly
210 215 220

Leu Tyr Leu His Thr Leu Leu Val Ala Met Leu Pro Pro Arg Arg Cys
225 230 235 240

Phe Leu Ala Tyr Leu Leu Ile Gly Trp Gly Leu Pro Thr Val Cys Ile
245 250 255

Gly Ala Trp Thr Ala Ala Arg Leu Tyr Leu Glu Asp Thr Gly Cys Trp
260 265 270

Asp Thr Asn Asp His Ser Val Pro Trp Trp Val Ile Arg Ile Pro Ile
275 280 285

Leu Ile Ser Ile Ile Val Asn Phe Val Leu Phe Ile Ser Ile Ile Arg
290 295 300

Ile Leu Leu Gln Lys Leu Thr Ser Pro Asp Val Gly Gly Asn Asp Gln
305 310 315 320

Ser Gln Tyr Lys Arg Leu Ala Lys Ser Thr Leu Leu Leu Ile Pro Leu
325 330 335

Phe Gly Val His Tyr Met Val Phe Ala Val Phe Pro Ile Ser Ile Ser
340 345 350

Ser Lys Tyr Gln Ile Leu Phe Glu Leu Cys Leu Gly Ser Phe Gln Gly
355 360 365

Leu Val Val Ala Val Leu Tyr Cys Phe Leu Asn Ser Glu Val Gln Cys
370 375 380

Glu Leu Lys Arg Lys Trp Arg Ser Arg Cys Pro Thr Pro Ser Ala Ser
385 390 395 400

Arg Asp Tyr Arg Val Cys Gly Ser Ser Phe Ser His Asn Gly Ser Glu
405 410 415

Gly Ala Leu Gln Phe His Arg Ala Ser Arg Ala Gln Ser Phe Leu Gln
420 425 430

PC10343B Sequence Listing

Thr Glu Thr Ser Val Ile
435

<210> 20
<211> 1640
<212> DNA
<213> Homo Sapiens

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<400> 20
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aggcgggcgg cgctggggcg cccccggcac gctgagctcg ggatgcggac gctgctgcct    180
cccgcgctgc tgacctgctg gctgctcgcc cccgtgaaca gcattcaccc agaatgccga    240
tttcatctgg aaatacagga ggaagaaaca aaatgtacag agcttctgag gtctcaaaca    300
gaaaaacaca aagcctgcag tggcgtctgg gacaacatca cgtgctggcg gcctgccaat    360
gtgggagaga ccgtcacggg gccctgcccc aaagtcttca gcaattttta cagcaaagca    420
ggaaacataa gcaaaaactg tacgagtgcg ggatggtcag agacgttccc agatttcgtc    480
gatgcctgtg gctacagcga cccggaggat gagagcaaga tcacgtttta tattctgggtg    540
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tctggcacgt tgcaactgccc tgaccagcca tcctcctggg tgggctgcaa gctgagcctg    780
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gaagacaccg gttgctggga taaaaacgac cacagtgtgc cctgggtgggt catacgaata   1020
ccgattttta tttccatcat cgtcaatttt gtccttttca ttagtattat acgaattttg   1080
ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggctg   1140
gccaaagtcca cgctcctgct tatcccgtg ttcggcgtcc actacatggg gtttgccgtg   1200
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cagggcctgg tgggtggccgt cctctactgt ttctgaaca gtgaggtgca gtgcgagctg   1320
aagcgaaaat ggcgaagccg gtgcccgacc ccgtccgcga gccgggatta cagggctctgc   1380
ggttcctcct tctcccacaa cggctcggag ggcgccctgc agttccaccg cgcgtcccga   1440
gcccagtcct tcctgcaaac ggagacctcg gtcactagc cccaccctg cctgtcggac   1500
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PC10343B Sequence Listing

agatgcccga gcaccgtgtc gggcaggtca gcgcggctct gactccgtca agctgggtgt	1620
ccactaaacc ccatacctgg	1640